

Remarks

Applicant respectfully requests reconsideration of this application as amended. Claims 1, 13, 21, 26, and 27 have been amended. Claims 6 and 17 have been cancelled. Claims 28 and 29 have been added. Therefore, claims 1, 13, and 19-29 are presented for examination.

35 U.S.C. §112 Rejection

Claims 6, 17, 21, 26 and 27 stand rejected under 35 U.S.C. §112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Applicant submits that claims 6 and 17 have been cancelled. Claims 21, 26, and 27 now depend from claims 1 and 13 and therefore are no longer are subject to the deficiencies of claims 6 and 17. Therefore, applicant respectfully requests the 35 U.S.C. §112 rejection be withdrawn.

35 U.S.C. §102(e) Rejection

Claim 1 stands rejected under 35 U.S.C. §102(e) as being anticipated by Furuya (U.S. Patent No. 6,504,720). Applicant submits that the present claims are patentable over Furuya.

Furuya discloses a cooling unit vessel that is filled with a refrigerant. The vessel includes a heat receiving portion for receiving heat from a heat generating component, a heat dissipating portion for dissipating the heat from the heat generating component, and a heat transfer portion for transferring the heat transmitted from the heat receiving portion to the heat dissipating portion via a refrigerant. At least the heat receiving portion of the vessel is formed of a soft heat conduction sheet that receives the heat from the heat generating

component. The heat conduction sheet is directly in contact with the heat generating component. (Furuya at Abstract.)

Claim 1 recites:

An apparatus, comprising:
an absorber section of a heat pipe attached to a first end of a base of the heat pipe to remove heat from a heat spreader, wherein the absorber section having a size of at least a surface area of the heat spreader;
a dissipater section of the heat pipe attached to a second end of the base of the heat pipe, wherein a width of the dissipater section is greater than a width of the base of the heat pipe, and the dissipater section having a size of at least a surface area of the absorber section;
and
a plurality of fins formed of the second end of the base, the plurality of fins attached to a bottom surface of the dissipater section, the fins having a length approximately equal to the width of the base.

First, applicant submits that Furuya does not disclose or suggest a dissipater section having a size of at least a surface area of an absorber section, as recited by claim 1. Furuya discloses that a first end portion of a heat conduction sheet has a size corresponding to that of a heat receiving portion. Furuya also discloses that a second end portion of the heat conduction sheet has a size corresponding to that of a heat dissipating portion. However, nowhere does Furuya disclose or suggest its heat dissipating portion having a size of at least a surface area of its heat receiving portion.

Second, applicant submits that Furuya does not disclose or suggest a plurality of fins formed of a second end of a base, the plurality of fins attached to a bottom surface of a dissipater section, the fins having a length approximately equal to the width of the base. Furuya discloses attaching a heat sink to its heat dissipating portion. This is not the same as a plurality of fins formed of the second end of the base of a heat pipe and attached to the

bottom surface of the dissipater section. Furthermore, Furuya does not disclose or suggest that its heat sink has a length approximately equal to the width of the base.

Therefore, for the reasons discussed above, claim 1 is patentable over Furuya. Claims 19-22 and 28-29 depend from claim 1 and include additional limitations. Therefore, claims 19-22 and 28-29 are also patentable over Furuya.

Independent claim 13 also recites, in part, a dissipater section having a size of at least a surface area of an absorber section and a plurality of fins formed of a second end of a base, the plurality of fins attached to a bottom surface of a dissipater section, the fins having a length approximately equal to the width of the base. As discussed above, Furuya does not disclose or suggest such a feature. Therefore, claim 13 and its dependent claims are patentable over Furuya for the reasons discussed above with respect to claim 1.

Applicant respectfully submits that the rejections have been overcome and that the claims are in condition for allowance. Accordingly, applicant respectfully requests the rejections be withdrawn and the claims be allowed.

The Examiner is requested to call the undersigned at (303) 740-1980 if there remains any issue with allowance of the case.

Applicant respectfully petitions for an extension of time to respond to the outstanding Office Action pursuant to 37 C.F.R. § 1.136(a) should one be necessary. Please charge our Deposit Account No. 02-2666 to cover the necessary fee under 37 C.F.R. § 1.17(a) for such an extension.

Please charge any shortage to our Deposit Account No. 02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Date: November 4, 2005

Ashley R. Ott
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A handwritten signature in cursive script, appearing to read 'Ashley Ott', is written over a horizontal line.

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